

Introduction

This project aims to develop a **Pharmacy Management System** that improves the interaction between patients and the pharmacy while providing admins with full control over operations. The system will allow users to search for medicines, view details, and check availability. Admins will have advanced tools to manage inventory, sales, and system users.

Technologies and Tools

To build a secure and efficient system, the development team will use:

- **ASP.NET Framework**
For building and managing backend endpoints.
- **SQL Server**
As the main database to store all pharmacy data (medicines, invoices, users, logs).
- **HTML, CSS, JavaScript**
For the frontend interface.
- **Figma**
For UI prototyping to help designers and developers visualize system screens.
- **Security Best Practices**
To ensure data integrity and protect sensitive pharmaceutical and customer information.
- **Testing Strategy**
 - *Unit Testing* for each backend component.
 - *System Testing* after integrating modules.

System Features

User Features (Patient View)

Regular users of the system will be able to:

- View available medicines.
- Search for medicines by **name** or **tags**.
- Open detailed drug pages containing:
Name, Tags, Description, Image, and Availability Status.
- Access an **About the Pharmacy** page that includes essential information and services offered.

Admin Features (Admin Dashboard)

Admins will have full control of the system, including:

- **Manage Medicines**
 - Add new drugs
 - Edit existing drug details
 - Delete drugs
 - Restock items
- **Sales Management**
 - Sell medicines to customers
 - View and manage invoices
 - Track total purchases
 - View profit summaries
- **User Management**
 - Create accounts for new admins
 - Manage admin privileges

Admins will also be able to view all pages seen by regular users, ensuring consistency between user and admin experiences.

Expected Outcomes

The Pharmacy Management System will:

- **Improve** the customer experience by providing quick access to medicine information.
- **Help** pharmacy staff manage inventory more efficiently.
- **Provide** accurate tracking of sales and profits.
- **Make sure** about the secure handling of data through proper backend and frontend security practices.

Conclusion

This project will deliver a **reliable** and **user-friendly pharmacy management solution** using **modern** web technologies and best development practices. With strong **backend support, clean UI design, and effective admin tools**, the system will streamline pharmacy operations and enhance patient accessibility to **medical information**.